

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/560,025

Source: 1FWP

Date Processed by STIC: 12/20/05

# ***ENTERED***



IFWp

## RAW SEQUENCE LISTING

DATE: 12/20/2005

PATENT APPLICATION: US/10/560,025

TIME: 10:24:23

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\12202005\J560025.raw

5 <110> APPLICANT: BIONEXIS  
 9 <120> TITLE OF INVENTION: Molecules for Targeting and releasing Therapeutic Compounds,  
 and the use  
 10 thereof  
 14 <130> FILE REFERENCE: 3665-165  
 C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/560,025  
 C--> 17 <141> CURRENT FILING DATE: 2005-12-08  
 20 <150> PRIOR APPLICATION NUMBER: PCT/FR2004/001435  
 21 <151> PRIOR FILING DATE: 2004-06-09  
 24 <150> PRIOR APPLICATION NUMBER: FR 0306944  
 25 <151> PRIOR FILING DATE: 2003-06-10  
 28 <160> NUMBER OF SEQ ID NOS: 50  
 32 <170> SOFTWARE: PatentIn version 3.1  
 36 <210> SEQ ID NO: 1  
 38 <211> LENGTH: 156  
 40 <212> TYPE: PRT  
 42 <213> ORGANISM: Homo sapiens  
 46 <400> SEQUENCE: 1  
 48 Asp Cys Arg Met Pro Met Gly Leu Ser Thr Gly Ile Ile Ser Asp Ser  
 49 1 5 10 15  
 52 Gln Ile Lys Ala Ser Glu Phe Leu Gly Tyr Trp Glu Pro Arg Leu Ala  
 53 20 25 30  
 56 Arg Leu Asn Asn Gly Gly Ser Tyr Asn Ala Trp Ser Val Glu Lys Leu  
 57 35 40 45  
 60 Ala Ala Glu Phe Ala Ser Lys Pro Trp Ile Gln Val Asp Met Gln Lys  
 61 50 55 60  
 64 Glu Val Ile Ile Thr Gly Ile Gln Thr Gln Gly Ala Lys His Tyr Leu  
 65 65 70 75 80  
 68 Lys Ser Cys Tyr Thr Thr Glu Phe Tyr Val Ala Tyr Ser Ser Asn Gln  
 69 85 90 95  
 72 Ile Asn Trp Gln Ile Phe Lys Gly Asn Ser Thr Arg Asn Val Met Tyr  
 73 100 105 110  
 76 Phe Asn Gly Asn Ser Asp Ala Ser Thr Ile Lys Glu Asn Gln Phe Asp  
 77 115 120 125  
 80 Pro Pro Ile Val Ala Arg Tyr Ile Arg Ile Ser Pro Thr Arg Ala Tyr  
 81 130 135 140  
 84 Asn Arg Pro Thr Leu Arg Leu Glu Leu Gln Gly Cys  
 85 145 150 155  
 88 <210> SEQ ID NO: 2  
 90 <211> LENGTH: 156  
 92 <212> TYPE: PRT  
 94 <213> ORGANISM: Artificial Sequence  
 98 <220> FEATURE:  
 100 <223> OTHER INFORMATION: Polypeptide built on the basis of C1F5-S0

p. 6

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102 <400> SEQUENCE: 2
104 Asp Cys Arg Met Pro Leu Gly Met Ser Thr Gly Ile Ile Ser Asp Ser
105 1 5 10 15
108 Gln Ile Lys Ala Ser Glu Phe Leu Gly Tyr Trp Glu Pro Arg Leu Ala
109 20 25 30
112 Arg Leu Asn Asn Gly Gly Ser Tyr Asn Ala Trp Ser Val Glu Lys Leu
113 35 40 45
116 Ala Ala Glu Phe Ala Ser Lys Pro Trp Leu Gln Ile Asp Met Gln Lys
117 50 55 60
120 Glu Val Ile Ile Thr Gly Ile Gln Thr Gln Gly Ala Lys His Tyr Leu
121 65 70 75 80
124 Lys Ser Cys Tyr Thr Thr Glu Phe Tyr Ile Ala Tyr Ser Ser Asn Gln
125 85 90 95
128 Ile Asn Trp Gln Ile Phe Lys Gly Asn Ser Thr Arg Asn Val Met Tyr
129 100 105 110
132 Phe Asn Gly Asn Ser Asp Ala Ser Thr Ile Lys Glu Asn Gln Leu Asp
133 115 120 125
136 Pro Pro Ile Val Ala Arg Tyr Ile Arg Ile Ser Pro Thr Arg Ala Tyr
137 130 135 140
140 Asn Arg Pro Thr Leu Arg Leu Glu Leu Gln Gly Cys
141 145 150 155
144 <210> SEQ ID NO: 3
146 <211> LENGTH: 156
148 <212> TYPE: PRT
150 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
156 <223> OTHER INFORMATION: Polypeptide built on the basis of C1F5-S0
158 <400> SEQUENCE: 3
160 Asp Cys Arg Met Pro Met Gly Leu Ser Thr Gly Ile Ile Ser Asp Ser
161 1 5 10 15
164 Gln Ile Lys Ala Ser Glu Phe Leu Gly Tyr Trp Trp Pro Arg Leu Ala
165 20 25 30
168 Arg Leu Asn Asn Gly Gly Ser Tyr Asn Ala Trp Ser Val Glu Lys Leu
169 35 40 45
172 Ala Ala Glu Phe Ala Ser Lys Pro Trp Ile Gln Val Asp Leu Gln Lys
173 50 55 60
176 Glu Val Ile Ile Thr Gly Ile Gln Thr Gln Gly Ala Lys His Tyr Leu
177 65 70 75 80
180 Lys Ser Cys Tyr Val Thr Glu Phe Tyr Val Ala Tyr Ser Ser Asn Gln
181 85 90 95
184 Ile Asn Trp Gln Ile Phe Lys Tyr Asn Ser Thr Arg Asn Val Met Tyr
185 100 105 110
188 Phe Asn Gly Asn Ser Asp Ala Ser Thr Ile Lys Glu Asn Gln Phe Asp
189 115 120 125
192 Pro Pro Leu Val Ala Arg Tyr Ile Arg Ile Ser Pro Thr Arg Ala Tyr
193 130 135 140
196 Asn Arg Ile Thr Leu Arg Leu Glu Leu Gln Gly Cys
197 145 150 155
200 <210> SEQ ID NO: 4

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202 &lt;211&gt; LENGTH: 156

204 &lt;212&gt; TYPE: PRT

206 &lt;213&gt; ORGANISM: Artificial Sequence

210 &lt;220&gt; FEATURE:

212 &lt;223&gt; OTHER INFORMATION: Polypeptide built on the basis of C1F5-S0

214 &lt;400&gt; SEQUENCE: 4

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216 Asp Cys Arg Met  Pro Met Gly Leu Ser  Thr Gly Ile Ile Ser Asp Ser
217 1              5              10              15
220 Gln Ile Lys Ala Ser Glu Phe Leu Gly Tyr Trp Glu Pro Arg Leu Ala
221              20              25              30
224 Arg Leu Asn Asn Gly Gly Ser Tyr Asn Ala Trp Ser Val Glu Lys Leu
225              35              40              45
228 Ala Ala Glu Phe Ala Ser Lys Pro Trp Leu Gln Ile Asp Leu Gln Lys
229              50              55              60
232 Glu Val Ile Ile Thr Gly Ile Gln Thr Gln Gly Ala Lys His Tyr Leu
233 65              70              75              80
236 Lys Ser Cys Tyr Thr Thr Glu Phe Tyr Ile Ala Tyr Ser Ser Asn Gln
237              85              90              95
240 Ile Asn Trp Gln Ile Phe Lys Gly Asn Ser Thr Arg Asn Val Met Tyr
241              100             105             110
244 Phe Asn Gly Asn Ser Asp Ala Ser Thr Ile Lys Glu Asn Gln Leu Asp
245              115             120             125
248 Pro Pro Ile Val Ala Arg Tyr Ile Arg Ile Ser Pro Thr Arg Ala Tyr
249              130             135             140
252 Asn Arg Pro Thr Leu Arg Leu Glu Leu Gln Gly Cys
253 145             150             155

```

256 &lt;210&gt; SEQ ID NO: 5

258 &lt;211&gt; LENGTH: 150

260 &lt;212&gt; TYPE: PRT

262 &lt;213&gt; ORGANISM: homo sapiens

266 &lt;400&gt; SEQUENCE: 5

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268 Lys Cys Gln Thr  Pro Leu Gly Met  Ala Ser Gly His Ile Arg Asp Phe
269 1              5              10              15
272 Gln Ile Thr Ala Ser Gly Gln Tyr Gly Gln Trp Ala Pro Lys Leu Ala
273              20              25              30
276 Arg Leu His Tyr Ser Gly Ser  Ile Asn Ala Trp Ser Thr Lys Glu Pro
277              35              40              45
280 Phe Ser Trp Ile Lys Val Asp Leu Leu Ala Pro Met Ile Ile His Gly
281              50              55              60
284 Ile Lys Thr Gln Gly Ala Arg Gln Lys Phe Ser Ser Leu Tyr Ile Ser
285 65              70              75              80
288 Gln Phe Ile Ile Met Tyr Ser Leu Asp Gly Lys Lys Trp Gln Thr Tyr
289              85              90              95
292 Arg Gly Asn Ser Thr Gly Thr Leu Met Val Phe Phe Gly Asn Val Asp
293              100             105             110
296 Ser Ser Gly Ile Lys His Asn Ile Phe Asn Pro Pro Ile Ile Ala Arg
297              115             120             125
300 Tyr Ile Arg Leu His Pro Thr His Tyr Ser Ile Arg Ser Thr Leu Arg
301              130             135             140

```

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Input Set : A:\PTO.DA.txt

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304 Met Glu Leu Met Gly Cys
305 145                      150
308 <210> SEQ ID NO: 6
310 <211> LENGTH: 150
312 <212> TYPE: PRT
314 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
320 <223> OTHER INFORMATION: Polypeptide built on the basis of C1F8-S0
322 <400> SEQUENCE: 6
324 Lys Cys Gln Thr Pro Met Gly Leu Ala Ser Gly His Ile Arg Asp Phe
325 1          5          10          15
328 Gln Ile Thr Ala Ser Gly Gln Tyr Gly Gln Trp Ala Pro Lys Leu Ala
329          20          25          30
332 Arg Leu His Tyr Ser Gly Ser Ile Asn Ala Trp Ser Thr Lys Glu Pro
333          35          40          45
336 Phe Ser Trp Leu Lys Ile Asp Leu Leu Ala Pro Met Ile Ile His Gly
337          50          55          60
340 Ile Lys Thr Gln Gly Ala Arg Gln Lys Phe Ser Ser Leu Tyr Ile Ser
341 65          70          75          80
344 Gln Tyr Ile Ile Met Tyr Ser Leu Asp Gly Lys Lys Trp Gln Thr Tyr
345          85          90          95
348 Arg Gly Asn Ser Thr Gly Thr Leu Met Val Phe Phe Gly Asn Val Asp
349          100          105          110
352 Ser Ser Gly Ile Lys His Asn Ile Phe Asn Pro Pro Ile Ile Ala Arg
353          115          120          125
356 Tyr Ile Arg Leu His Pro Thr His Tyr Ser Ile Arg Ser Thr Leu Arg
357          130          135          140
360 Met Glu Leu Met Gly Cys
361 145                      150
364 <210> SEQ ID NO: 7
366 <211> LENGTH: 150
368 <212> TYPE: PRT
370 <213> ORGANISM: Artificial Sequence
374 <220> FEATURE:
376 <223> OTHER INFORMATION: Polypeptide built on the basis of C1F8-S0
378 <400> SEQUENCE: 7
380 Lys Cys Gln Thr Pro Met Gly Leu Ala Ser Gly His Ile Arg Asp Phe
381 1          5          10          15
384 Gln Ile Thr Ala Ser Gly Gln Tyr Gly Gln Trp Ala Pro Lys Leu Ala
385          20          25          30
388 Arg Leu His Tyr Ser Gly Ser Ile Asn Ala Trp Ser Thr Lys Glu Pro
389          35          40          45
392 Phe Ser Trp Ile Lys Val Asp Leu Leu Ala Pro Met Ile Ile His Gly
393          50          55          60
396 Val Lys Thr Gln Gly Ala Arg Gln Lys Phe Ser Ser Leu Tyr Ile Ser
397 65          70          75          80
400 Gln Phe Ile Ile Met Tyr Ser Leu Asp Gly Lys Lys Trp Gln Thr Tyr
401          85          90          95
404 Arg Tyr Asn Ser Thr Gly Thr Leu Met Val Phe Phe Gly Asn Val Asp

```

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TIME: 10:24:23

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\12202005\J560025.raw

```

405          100          105          110
408 Ser Ser Gly Ile Lys His Asn Ile Phe Asn Pro Pro Leu Ile Ala Arg
409          115          120          125
413 Tyr Ile Arg Leu His Pro Thr His Tyr Ser Ile Arg Ser Thr Leu Arg
414          130          135          140
417 Met Glu Leu Met Gly Cys
418 145          150
421 <210> SEQ ID NO: 8
423 <211> LENGTH: 150
425 <212> TYPE: PRT
427 <213> ORGANISM: Artificial Sequence
431 <220> FEATURE:
433 <223> OTHER INFORMATION: Polypeptide built on the basis of C1F8-S0
435 <400> SEQUENCE: 8
437 Lys Cys Gln Thr Pro Leu Gly Met Ala Ser Gly His Ile Arg Asp Phe
438 1          5          10          15
441 Gln Ile Thr Ala Ser Gly Gln Tyr Gly Gln Trp Trp Pro Lys Leu Ala
442          20          25          30
445 Arg Leu His Tyr Ser Gly Ser Ile Asn Ala Trp Ser Thr Lys Glu Pro
446          35          40          45
449 Phe Ser Trp Leu Lys Ile Asp Leu Leu Ala Pro Met Ile Ile His Gly
450          50          55          60
453 Ile Lys Thr Gln Gly Ala Arg Gln Lys Phe Ser Ser Leu Tyr Ile Ser
454 65          70          75          80
457 Gln Phe Ile Ile Met Tyr Ser Leu Asp Gly Lys Lys Trp Gln Thr Tyr
458          85          90          95
461 Arg Gly Asn Ser Thr Gly Thr Leu Met Val Phe Phe Gly Asn Val Asp
462          100          105          110
465 Ser Ser Gly Ile Lys His Asn Ile Phe Asn Pro Pro Leu Leu Ala Arg
466          115          120          125
469 Tyr Ile Arg Leu His Pro Thr His Tyr Ser Ile Arg Ser Thr Leu Arg
470          130          135          140
473 Met Glu Val Met Gly Cys
474 145          150
477 <210> SEQ ID NO: 9
479 <211> LENGTH: 159
481 <212> TYPE: PRT
483 <213> ORGANISM: homo sapiens
487 <400> SEQUENCE: 9
489 Cys Ser Thr Pro Leu Gly Met Glu Asn Gly Lys Ile Glu Asn Lys Gln
490 1          5          10          15
493 Ile Thr Ala Ser Ser Phe Lys Lys Ser Trp Trp Gly Asp Tyr Trp Glu
494          20          25          30
497 Pro Phe Arg Ala Arg Leu Asn Ala Gln Gly Arg Val Asn Ala Trp Gln
498          35          40          45
501 Ala Lys Ala Asn Asn Asn Lys Gln Trp Leu Glu Ile Asp Leu Leu Lys
502          50          55          60
505 Ile Lys Lys Ile Thr Ala Ile Ile Thr Gln Gly Cys Lys Ser Leu Ser
506 65          70          75          80

```

## RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 12/20/2005

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TIME: 10:24:25

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\12202005\J560025.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:18; Xaa Pos. 2,7,9,11,12,14,15,16,17,21,22,23,27,28,37,40,42,44,46,47

Seq#:18; Xaa Pos. 49,54,61,67,68,72,73,74,75,76,77,84

Seq#:34; Xaa Pos. 7,8,11,12,13,14,16,19,20,21,22,23,24,25,26,27,28,29,30

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 9

## VERIFICATION SUMMARY

DATE: 12/20/2005

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TIME: 10:24:25

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\12202005\J560025.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:16  
L:1296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:32  
L:1300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:48  
L:1304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:64  
L:1308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:80  
L:2058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
L:2062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:16